

DH-IPC-HDW5442TM-AS

4MP WDR IR Eyeball AI Network Camera



Dahua AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Pro Al series contains Face Capture, Perimeter Protection and People Counting functions. Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 standard.

Functions

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

- · 1/1.8" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@2688×1520
- · WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm, 6mm optional)
- · Max. IR LEDs Length 51m
- · Micro SD memory, IP67











Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. Dahua face detection camera can extract six facial attributes and output the metadata for analysis.

Protection(IP67, wide voltage)

The camera allows for $\pm 30\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.



Technical S	pecification					
Camera						
Image Sensor		1/1.8" 4Megapixel progressive scan CMOS				
Effective Pixels		, ,	2688(H) x 1520(V)			
RAM/ROM		512MB/128N				
		Progressive				
Scanning System		Auto/Manual, 1/3~1/100000s				
Electronic Shutter Speed		0.0016Lux/F1.6 (Color,1/3s,30IRE)				
Minimum Illumination		0.015Lux/F1.6 (Color,1/30s,30IRE) OLux/F1.6(IR on)				
IR Distance		Distance up to 51m (167ft)				
IR On/Off Contr	-ol	Auto/ Manual				
IR LEDs		2				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length			m.6.0mm			
		2.8mm,3.6mm,6.0mm				
Max. Aperture		F1.6				
Angle of View			H: 113°, V:60°/H: 89°, V:48°/H: 56°, V:31°			
Optical Zoom		N/A				
Aperture Type			1 2 - 1/4 27 (1/4 0 - 1/4 2 27 (1/4 2 47 (1/4			
Close Focus Dis			1.3m(4.27ft)/1.9m(6.23ft)/3.8m(12.47ft)			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)	
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)	
Pan/Tilt/Rota	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)	
Pan/Tilt/Rotation	on Range	Pan:0°~360°;	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Artificial Inte	lligence					
Perimeter Prote	ection	Tripwire, Intr	Tripwire, Intrusion(Human & Vehicle classification)			
			Line crossing people counting, Region people			
People Counting		counting				
General Intelligence Event Trigger		Motion detection, Video tampering , Scene				
		changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly				
General Intelligence		Object Abandoned/Missing				
Video			5 h 1 0 5 : 1:		2244	
Compression		H.265+/H.265/H.264+/H.264/H.264B/H.264H/ MJPEG(sub stream)				
Streaming Capability Resolution		3 Streams 2688×1520/2304×1296/1080P(1920×1080)/1.3M(1 280×960)/720P(1280×720)/D1(704×576/704×480)/				
		VGA(640×480)/CIF(352×288/352×240)				

Interface

Video Interface	N/A
Audio Interface	Built-in MIC
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.1W 6.2W(IR on) PoE:2.6W 7.2W(IR on)

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Strorage Conditions	+5° C $^{\sim}$ +40° C (+41° F $^{\sim}$ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH $^{\sim}$ 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	Ф106mm×99.2mm (4.17"×3.91")
Net Weight	0.55Kg (1.21lb)
Gross Weight	0.71Kg (1.57lb)

	Ordering Information			
	Туре	Part Number	Description	
		DH-IPC- HDW5442TMP-AS	4MP WDR IR Eyeball AI Network Camera, WDR,PAL	
	4MP camera	DH-IPC- HDW5442TMN-AS	4MP WDR IR Eyeball Al Network Camera, WDR,NTSC	
		IPC- HDW5442TMP-AS	4MP WDR IR Eyeball Al Network Camera, WDR,PAL	
		IPC- HDW5442TMN-AS	4MP WDR IR Eyeball Al Network Camera, WDR,NTSC	
		PFA130-E	Junction box	
		PFA151	Corner Mount	
	Accessories	PFB204W	Wall Mount	
	(optional)	PFA106	Mount Adapter	
		PFB220C	Ceiling Mount	
		PFA152-E	Pole Mount	

Accessories

Optional:











PFA130-E Junction box

PFA151 Corner Mount

PFB204W Wall Mount

PFA106 Mount Adapter







Junction Mount	Corner Mount
PFA130-E	PFA151+PFB204W
Wall Mount	Ceiling Mount
PFB204W	PFA106+PFB220C
Ceiling Mount	Pole Mount
	PFB204W + PFA152-E

Dimensions (mm/inch)





